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institutes but were not introduced into industry. Quite often the scientific institutes develop theoretical facts which do not have any practical use in industry. The scientific workers have an expression--"put the newly developed ideas on the shelf", that is, don't introduce to industry, but store them in the technical archives. This occurrence isn't necessarily of general and uniform character.

4. In the spring of 1949, a sudden break arose in connection with the establishment of a close relationship between science and practical operation. It happened in the following manner: an inspired note from the workers of Leningrad was sent to Stalin. This note stated that they were taking the obligation upon themselves to convert Leningrad into an important technical center and to improve working relations between the scientific and production workers. After that the heads of all ministries and administrations issued an order in which they were obliged to comply with the introduction and performance of the "great initiatives" of the Leningraders.
5. This was done in the following manner in the merchant fleet: first a meeting of the workers was called in all the scientific and educational institutions and also in the enterprises and organizations belonging to the merchant fleet. Trade resolutions and agreements for the strengthening and expanding of relations between scientific and production workers were adopted at the conference. The ministry also issued an order clarifying the status of a scientific worker in scientific and educational institutions. It also issued an order for carrying out the "initiatives" of the Leningrad workers, and it may be assumed that this was also done in the river fleet transportation system and also in other ministries and administrations.
6. The exploitation aspect of scientific problems was radically changed in the Central Sci-Res Institute and also in the advanced educational establishments of the merchant fleet. The Central Technical Administration (TsTU) of the Ministry and of the technical Soviet of the Ministry established control over the thematic planning of the scientific and educational establishments and also over those themes which did not have any practical value. By 1951 the work of the scientific institutes of the merchant fleet was greatly improved. The institutes were closer allied to production and solved a number of important problems of the merchant fleet. However, the manufacturers were still insufficiently concerned with the problem of introducing new techniques into the enterprises. Moreover, the Central Technical Administration of the Ministry, in a number of cases, retarded the conclusion of individual works of scientific administrations. In May 1951, the senior minister of the fleet, Novikov, issued order No 307 for the purpose of creating better working relations between scientific administrations and industry. As a result of this order the development and realization of measures for the introduction of advanced techniques were presented to the main administration of the Ministry. In addition, the plans worked out by the Ministry for the acceptance and introduction of new techniques and controls were presented as follows:
 - (a) Matters concerning the fleet and industrial enterprises - to the Central Technical Administration;
 - (b) Matters pertaining to ports - to the Department for the Development and Reconstruction of Ports;
 - (c) Matters pertaining to communications and electro-radio navigation - to the Central Administration of Communications and Electro-Radio Navigation.

These three organs were obliged to provide for interrelation between scientific administrations and industry.

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7. From the foregoing it is clear that one of the means of inter-relation is along the general administration line. Such an association is feasible in the following manner: every year during the course of thematic planning, the scientific administration sends an inquiry to the three forementioned organs in regard to any existing problems. These organs, up to a definite time, prepare orders for the scientific establishments concerning the processing of various measures. The orders are compiled on the basis of proposals obtained from the main administrations of the ministry which in turn receive suggestions directly from the manufacturers. The general thematic plan of each scientific establishment, with the decisions of the directors of the three organs, is sent to the ministry for approval. The scientific establishments distribute prepared material for approval to the corresponding connecting and controlling organs, (a) the Central Technical Administration, (b) the Department for the Development and Reconstruction of Ports and (c) the Central Communications and Electro-Radio Navigation Administration. The approval of any of the plans is usually made at a meeting of the technical Soviet. The theme, processed and approved, is then submitted to the main administration to be put into production. According to the minister's order No 307, the connecting organs are responsible for the introduction of new measures into production. The amount of work completed by the scientific establishments of the merchant fleet was usually about 40% of the entire thematic plan of the scientific establishments.
8. Another aspect of the relation of the scientific administration with production is the so-called creative cooperation of scientific workers with production workers which was put into effect universally in 1949. This is the way the relationship works: Individual scientific workers of the Central Sci-Res Institutes of the merchant fleet and of the maritime advanced institutions conclude individual agreements with the directors of enterprises and organizations for constructive cooperation. The scientific worker is then obliged to work out a particular problem for a given enterprise. The enterprise in return provides the scientific worker with the necessary materials, tools equipment, etc.
9. There may be collective agreements between sections or working groups from scientific institutions and production workers, and also between scientific establishments as a whole and production workers.
10. A control exists which governs the fulfillment of the agreements. Particularly there is a special card catalog carrying the results of the completed sci-res work which has been applied to production. This card catalog is found in the technical information section of the Central Sci-Res Institute of the Merchant Fleet.
11. Apart from scientific-research work, scientific workers give written and oral consultations to production workers, give lectures and reports and conduct technical analyses. The Central Sci-Res Institute of the Merchant Fleet also has corresponding members who are production workers (in 1951 there were 25) and help to create friendlier relations between scientific and production workers.
12. The scientific workers of the Central Sci-Res Institute of the Merchant Fleet concluded more than 30 agreements with the production workers in 1951, gave about 250 written and oral consultations, and more than 50 lectures and reports.
13. The professors and instructors of the Leningrad Advanced Maritime School in 1951 concluded 20 agreements with the production workers, gave 130 consultations and analyses and more than 80 lectures and reports.

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14. The professors and instructors of the Odessa Institute of Merchant Marine Engineers in 1951 concluded 15 agreements with the production workers, gave 160 consultations and analyses, forty lectures and reports, and more than 300 analyses of fuel, metals and other materials.
15. A few of the projects completed by the scientific workers of the scientific institutions are:
- (a) Developed technical conditions for planning the construction of a 35-ton capacity floating crane;
 - (b) Planned and installed a spark extinguisher on oil tankers of the "Kasptanker" and "Reydtanker" steamship companies;
 - (c) Developed the use of a preliminary voltage armature for erecting steel and concrete hydrotechnical structures, especially pilings;
 - (d) Planned and introduced a system of inert pressure in the main engines on several Diesel tugs of the "Reydtanker" steamship company;
 - (e) Developed a system of diffusion chrome plating of parts and instruments;
 - (f) Conducted work for the utilization of automatic and semi-automatic welding apparatus in ship repair yards.
16. In recent years the interest of the directors of enterprises in the merchant fleet has grown so significantly in regard to the introduction of scientific achievements, that the directors of individual large organizations began to utilize the services of scientific and educational institutions not belonging to the merchant fleet. For example, the director of the Baltic steamship company used projects developed by Leningrad Engineering-Construction Institute for the Reconstruction and General Overhauling of Ships.
17. The above data [redacted] following conclusion: the directors of transportation organizations and other leading branches of industry are becoming increasingly interested in the scientific achievements of the scientific educational institutions and their relationship with production.

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